

THE CLAIMS

1. (Previously Presented) An apparatus for adapting graphics contents, comprising:
a graphics usage environment information managing means for collecting and managing graphics usage environment information related to consuming the graphics contents, wherein contents of the graphics usage environment information is schema-based;
a graphics adapting means for adapting the graphics contents to the graphics usage environment information; and
a graphics meta-data adapting means for adapting meta-data of graphics contents such that the meta-data corresponds to characteristics of the graphics contents after being adapted by the graphics adapting means, wherein the graphics usage environment information includes user terminal characteristics information and a user's graphics presentation preference information.
2. (Original) The apparatus as recited in claim 1, wherein the user terminal characteristics information includes information related to encoding/decoding performance of the user terminal, and the graphics adapting means adapts the graphics contents based on the information related to encoding/decoding performance and transmits the adapted graphics contents to the user terminal.
3. (Original) The apparatus as recited in claim 2, wherein the information related to encoding/decoding performance includes information on the maximum number of vertices processed per second in the user terminal.
4. (Original) The apparatus as recited in claim 2, wherein the information related to encoding/decoding performance includes information on the maximum number of pixels shown in a screen buffer of the user terminal per second.
5. (Original) The apparatus as recited in claim 2, wherein the information related to encoding/decoding performance includes information on the maximum rate between a graphics processor and a graphics memory of the user terminal.
6. (Previously Presented) The apparatus as recited in claim 1, wherein the user's graphics presentation preference information includes preference for geometrical characteristics of graphic objects of the graphics contents, and the graphics adapting means adapts the graphics contents by

changing the geometric characteristics of the graphic objects of the graphics contents and transmits the adapted graphics contents to the user terminal.

7. (Previously Presented) The apparatus as recited in claim 1, wherein the user's graphics presentation preference information includes preference for material characteristics of the graphic objects of the graphics contents, and the graphics adapting means adapts the graphics contents by changing material characteristics of the graphic objects of the graphics contents and transmits the adapted graphics contents to the user terminal.

8. (Previously Presented) The apparatus as recited in claim 1, wherein the user's graphics presentation preference information includes user preference for the number of pictures of animation graphic objects shown for one second, and the graphics adapting means adapts the graphics contents by changing characteristics of the animation graphic objects of the graphics contents based on the user preference and transmits the adapted graphics contents to the user terminal.

9. (Previously Presented) A method for adapting graphics contents, comprising the steps of:
a) collecting and managing graphics usage environment information related to consuming the graphics contents, wherein contents of the graphics usage environment information is schema-based;
b) adapting the graphics contents to the graphics usage environment information; and
c) adapting meta-data of the graphics contents such that the meta-data corresponds to characteristics of the graphics contents after being adapted according to the graphics usage environment information,

wherein the graphics usage environment information includes user terminal characteristics information and a user's graphics presentation preference information.

10. (Original) The method as recited in claim 9, wherein the user terminal characteristics information includes information related to encoding/decoding performance of the user terminal, and in the step b), the graphics contents are adapted based on the information related to

encoding/decoding performance and the adapted graphics contents are transmitted to the user terminal.

11. (Previously Presented) The method as recited in claim 10, wherein the information related to encoding/decoding performance includes information on the maximum number of vertices processed per second in the user terminal.

12. (Previously Presented) The method as recited in claim 10, wherein the information related to encoding/decoding performance includes information on the maximum number of pixels shown in a screen buffer of the user terminal per second.

13. (Previously Presented) The method as recited in claim 10, wherein the information related to encoding/decoding performance includes information on the maximum rate between a graphics processor and a graphics memory of the user terminal.

14. (Previously Presented) The method as recited in claim 9, wherein the user's graphics presentation preference information includes preference for geometrical characteristics of graphic objects of the graphics contents, and in the step b), the graphics contents are adapted by changing the geometric characteristics of the graphic objects of the graphics contents and the adapted graphics contents are transmitted to the user terminal.

15. (Previously Presented) The method as recited in claim 9, wherein the user's graphics presentation preference information includes preference for material characteristics of the graphic objects of the graphics contents, and in the step b), the graphics contents are adapted by changing material characteristics of the graphic objects of the graphics contents and the adapted graphics contents are transmitted to the user terminal.

16. (Previously Presented) The method as recited in claim 9, wherein the user's graphics presentation preference information includes user preference for the number of pictures of animation graphic objects shown for one second, and in the step b), the graphics contents are

adapted by changing characteristics of the animation graphic objects of the graphics contents based on the user preference and transmits the adapted graphics contents to the user terminal.